

## Product datasheet for **MR223719**

### **Krt75 (NM\_133357) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Krt75 (NM_133357) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Krt75
Synonyms:	4732468K03Rik; AA589387; K6hf; Krt2-6hf; Krtcap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223719 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCCAGCAATCCACCATCACCTTCCACTCCGGCAGCCGAGGGCTTCAGCACAGCCTCAGCCACCA  
 CACCTACGGCTGGACGCTCCCGCTTCAGCTCCGTGTCTGTGGCCGCTCCTCAGGAAACAGTGGGGGACT  
 GGGCAGGATCAGTGGTATTGGTTCTGGCTTGGAAAGCCGAGCCTCTACAACCTAGGGGGACCCGGCGG  
 GTCTCCATTGGTGGCTGTCTGGCAGTGGCTTCAGGGGTGGCTTGGTGGCAGGACTAGCAGTGGCTTTG  
 GGGCAGCAGTGGCTTTGCTTATGGAGGTGGCATTGGAGGGGCTTTGGTGGCCCTGGCTTCTGTCTG  
 TCCCTCTGGAGGCATTAGGAAGTTACTGTCAACCAGAGCCTCCTGACTCCCCTCAACCTGCAAATCGAC  
 CCCACTATCCAGCGGGTGCAGAAAGAAGAACGGGAGCAGATCAAGACTCTGAACAACAAGTTCGCCTCCT  
 TCATTGACAAGGTACGCTTCTGGAGCAGCAGAACAAGGTCTGGAGACCAAGTGAATCTCCTGCAGGA  
 GCAGGGCTCTAGGACAGTCAAGACAACCTGGAGCCTTTCTTCGATACATATGTCAATGACTCCGCGG  
 CAGCTGGATGGCATCACAGCTGAAAGAGGCAGACTGGATGCTGAACTGAGGAACATGCAGGAGGTTGTAG  
 AAGACTTCAAAGTCAGGTATGAAGACGAAATTAACAAGCGTGCAGCTGCCGAGAATGAGTTCGTGGGCT  
 GAAAAAGGACGTAGACAGTGCCTACATGAACAAGGTGGAGCTGGAAGCGAAGGTCGACTCTCTGACTGAC  
 CAGATCAACTTCTACCGATGATCTATGAGGCAGAGCTGTCTCAGATGCAGAACCAGGTGAGTGACACCT  
 CTGTGGTCTCTCCATGGACAACAACCGCAGCCTGGACCTGGACAGCATCATCGCCGAGGTCAAGGCCCA  
 GTACGAGGACATTGCCAACCGAAGCCGGCAGAGGCTGAGTCTGGTACCAGACGAAGTATGAGGAGCTG  
 CAGGTGACCGCAGGCCGGCATGGTATGACCTCCGCAACCAACAAGAGATTTAGAGATGAACCGGA  
 TGATCCAGAGGCTCAGATCTGAGATTGATGCCGTCAAGAAGCAGTGTCCAGCTTACAACTGCTATCTC  
 TGACGCTGAGCAGCGTGGAGAGCTAGCTCTCAAGGATGCCCGGGCCAAGCTGATGGAGCTTGAAGATGCC  
 CTACAGAAAGCCAAGCAGGACATGGCCAGTGTCTCGAGAGTACCAGGAACTCATGAACGTCAAAGTGG  
 CCTTGGATGTGGAGATCGCCACCTACAGGAAGCTGCTGGAAGCGAGGAGTGCAGGCTGAGCGGAGAGGG  
 AGTTTCCCAGTGAACATCTCTGTGGTCACTTCTACGGTTTCCAGTGGCTATGGCGGTGGTCCAAACATT  
 GGAGGTGGAAGCCTGGTCTTGGTGGGAACAGTGGCTACTCCTTACGACCAGTGGTGGGCACAGCCTGG  
 GCACAGGTCTGGGAGGCTCTGGCTTACCACCACCAGCAGCCGGGGCCAGTGGGCAGTGGCTCCAGCAT  
 CAAGTTTGTCTCCAGCACATCATCCAGAAAGATTACAAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223719 protein sequence  
 Red=Cloning site Green=Tags(s)

MSRQSTITFHSGSRRGFSTASATPTAGRSRFSVSVARSSGNSGGLGRISGIGSGFGSRSLYNLGGTRR  
 VSIIGGCAGSGFRGGFGGRTSSGFGSSGFAYGGIGGGFPGFVCPSSGIIQEVTVNQSLTLPNLQID  
 PTIQRVRKEEREQIKTLNKFASFIDKVRFLQKQNVLETKWNLLQEQSRTVQRNLEPFQDQVYVNDLRR  
 QLDGITAERGLDAELRNMQEVVEDFKVRYEDEINKRAAAENEFVGLKKDVDSAYMNVLEAKVDSLTD  
 QINFYRMIYEAELSQMKNQVSDTSVVLSDNNRSLDLDSIIAEVKAQYEDIANRSRAEAEASWYQTKYEEL  
 QVTAGRHGDDL RNTKQEISEMNRMIQRLRSEIDAVKKQCSSLQTASDAEQRGELALKDARAKLMELEDA  
 LQKAKQDMARLLREYQELMNVKALDVEIATYRKLLEGEERLSEGEVSPVNI SVVTSTVSSGYGGGANI  
 GGGSLGLGGNSGYSFTTSGHSLGTGLGSGFTTSSRGPVSGSSIKFVSTSSRKSYKH

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_133357

**ORF Size:** 1656 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_133357.3](#), [NP\\_579935.1](#)

**RefSeq Size:** 3268 bp

**RefSeq ORF:** 1656 bp

**Locus ID:** 109052

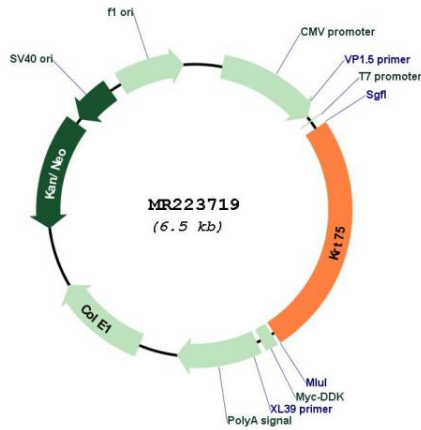
**UniProt ID:** [Q8BGZ7](#)

**Cytogenetics:** 15 56.91 cM

**MW:** 59.7 kDa

**Gene Summary:** Plays a central role in hair and nail formation. Essential component of keratin intermediate filaments in the companion layer of the hair follicle (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223719